

- CLAIMS -

1.- A screen made of radioprotective material for ensuring protection of an operator against X ray-type ionising radiation emissions or others, which screen consists of a front wall (1) associated with a side wall (2) extending at right angle or substantially at right angle from one of the sides of said front wall (1), which walls (1, 2) include transparent panels (8, 10) over a portion at least of the height thereof, characterised in that it comprises a front wall (1) whereof the upper section (8), on the one hand is tilted forward, thereby overhanging, to enable said operator to come closer to the intervention zone, and on the other hand, is fitted with two orifices (11, 12) for letting through said operator's arms.

2.- A protection screen according to claim 1, characterised in that it includes a front wall (1) formed of a lower panel (7) vertical or substantially vertical, prolonged by an upper panel (8) whereof a portion at least is made of transparent material, which upper panel (8) is tilted forward, forming an angle ranging between 10 and 30° with respect to the vertical.

3.- A protection screen according to claim 2, characterised in that it includes an upper panel (8), tilted forward, forming an angle ranging between 15 and 20° with respect to the vertical.

4.- A protection screen according to any of the claims 1 to 3, characterised in that it includes a front wall (1) formed of a lower panel (7) of opaque material which extends over a height ranging between 60 and 100 cm, prolonged by an upper panel (8) which extends up to a level corresponding at least to the operator's height, i.e. 2 m.

5.- A protection screen according to any of the claims 1 to 4, characterised in that one at least of the orifices (11, 12) for letting through the operator's arms is provided with an oversleeve (25) of radioprotective material.

6.- A protection screen according to claim 5, characterised in that the protection oversleeve (25) is formed of flexible strips (26) mounted on a circular crown (27) which may be associated with the rim of the reception orifice, which strips (26) overlap and are maintained by a flexible wristband (28) situated close to the external mouthpiece of said oversleeve (25).

7.- A protection screen according to any of the claims 1 to 6, characterised in that one of the orifices (11) for letting through the arms is situated close to the angle formed by the front (1) and lateral (2) walls, the other orifice (12) being situated on the free edge of said front wall (1), open laterally.

8.- A protection screen according to any of the claims 1 to 7, characterised in that the upper front panel (8) fitted with orifices (11, 12) for letting through the arms is lined by dint of a mobile panel (13) fitted with said orifices (11 and 12) for letting through the arms, which front panel (8) includes orifices (11', 12') oblong in shape, oversized with respect to said orifices (11 and 12) of said mobile panel (13), which extend over the whole surface scanned by said orifices (11, 12) of said lining panel (13), notably for enabling adjustment in height of said orifices (11, 12).

9.- A protection screen according to claim 8, characterised in that the mobile panel (13) co-operates with guiding means in the form of rails (14, 15) fixed laterally at the front wall (1), and in that locking means are arranged for adjusting the position in height of said mobile panel (13), which locking means are formed of an index (16) arranged on the rim of the front wall (1) and of an anchoring finger (17) associated with said mobile panel (13).

10.- A protection screen according to any of the claims 1 to 7, characterised in that the front wall (1) and the side wall (2) form an assembly mounted to slide vertically on a frame or substructure (4) fitted with castor wheels (5, 5'), notably for enabling adjustment in height of the orifices (11, 12) for letting through the arms.

11.- A protection screen according to claim 10, characterised in that it includes a system for controlling the assembly composed of the front wall (1) and the side wall (2), in the form of actuator(s) driven by a control member.

12.- A protection screen according to any of the claims 1 to 11, characterised in that it includes, integral with its frame or substructure (4), castor wheels (5) placed at the different ridges, and at least one additional castor wheel (5') mounted to protrude on the front face of the front wall (1), carried by a console (6), enabling to increase the sustentation perimeter.

13.- A protection screen according to any of the claims 1 to 12, characterised in that it includes, attached to the front (1) and lateral (2) walls or to the chassis or substructure (4), flexible strips (32) made of leaded rubber-type material.

14.- A protection screen according to any of the claims 1 to 13, characterised in that it includes, on the external and internal faces of the front wall (1), below the level of the orifices (11 and 12) for letting through the arms, small bars or profiles (30) enabling notably to attach sterile fields.

15.- A protection screen according to any of the claims 1 to 14, characterised in that it includes an additional wall (3) of radioprotective material, acting as a ceiling, which extends between the front (1) and lateral (2) walls.

16.- A protection screen according to any of the claims 1 to 15, characterised in that it includes a flexible curtain (37) for protecting the operator's back.

17.- A protection screen according to any of the claims 1 to 16, characterised in that it includes a removable resting arm (40) for supporting the operator.